

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

**EP 0 778 044 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
09.07.1997 Bulletin 1997/28

(51) Int Cl.<sup>6</sup> **A61M 25/09, A61N 1/05**

(43) Date of publication A2:  
11.06.1997 Bulletin 1997/24

(21) Application number: **96850204.7**

(22) Date of filing: **03.12.1996**

(84) Designated Contracting States:  
**DE ES FR GB IT NL**

• **Lindgren, Ulf**  
**121 35 Enskededalen (SE)**

(30) Priority: **04.12.1995 SE 9504334**

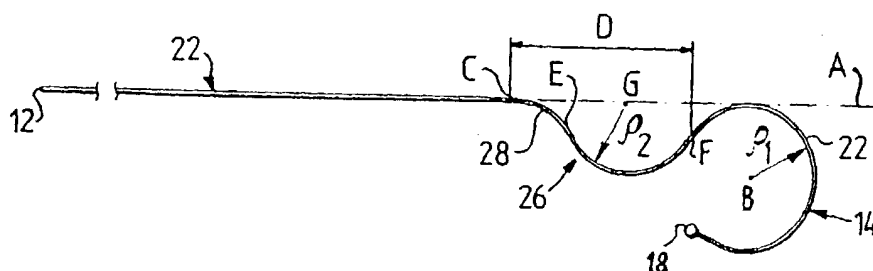
(74) Representative: **Lettström, Richard Wilhelm et al**  
**H. Albihns Patentbyrå AB,**  
**Box 3137**  
**103 62 Stockholm (SE)**

(72) Inventors:  
• **Boström, Mats**  
**172 31 Sundbyberg (SE)**

**(54) Guidewire unit**

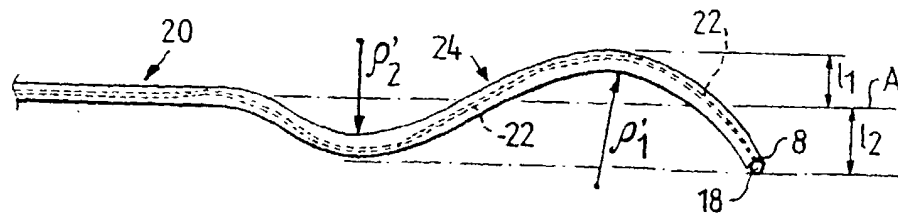
(57) A stylet unit which can be introduced into a narrow, hollow, flexible component, such as a hollow electrode cable for a heart stimulator, to stiffen the component and bend its distal end section, said stylet unit (20) comprising a double stylet combination with a flexible stylet shell (24) and an internal stylet wire (22), movably arranged inside same, with a pre-bent distal end section

(14), whose radius of curvature ( $\rho_1$ ) is on a first side of the stylet. In a region (D) before the pre-bent end section (14), the stylet (22) has a pre-shaped stylet section comprising a pre-bent stylet portion (26) whose radius of curvature ( $\rho_2$ ) is on the side of the stylet (22) opposite the side on which the end section's (14) radius of curvature ( $\rho_1$ ) lies.

**Fig.3**

EP 0 778 044 A3

Fig. 4



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 96 85 0204.7

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.6)
X	EP, A1, 0381810 (ADVANCED CARDIOVASCULAR SYSTEMS, INC.), 16 August 1990 (16.08.90) * page 3, line 9 - line 49 *	1-2	A61M 25/09 A61N 1/05
A	--	3-8	
X	US, A, 3757768 (W.M. KLINE), 11 September 1973 (11.09.73) * column 4, line 8 - line 21, figure 4 *	1-2	
A	--	3-8	
A	WO, A1, 9513111 (CARDIORHYTHM), 18 May 1995 (18.05.95) * page 8, line 26 - line 39, figure 1 *	1-8	
			TECHNICAL FIELDS SEARCHED (Int. Cl.6)
			A61M A61N
The present search report has been drawn up for all claims			
Place of search STOCKHOLM		Date of completion of the search 11 March 1997	Examiner EVA SELIN
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>			